

Application/Control Number: 09/821,985
Art Unit: 2681

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CLMPTO
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1. A special reproduction data generating device,
comprising:

input means of inputting an MPEG transport stream;
special reproduction data generating means of directly
generating special reproduction data by selecting a transport
packet including data of a predetermined kind of frame from
transport packets of the MPEG transport stream, without
converting the inputted MPEG transport stream to an ES
(elementary stream) or PES (packetized elementary stream);
and

output means of outputting the special reproduction data
as an MPEG transport stream.

2. The special reproduction data generating device
according to claim 1, wherein the special reproduction data
generating means adds Presentation Time Stamp (PTS), which
is used for special reproduction, to the selected transport
packet, and corrects a mismatching MPEG format so as to generate
the special reproduction data.

3. The special reproduction data generating device
according to claim 2, wherein the special reproduction data
generating means also adds Decoding Time Stamp (DTS) to the
selected transport packet.

4. The special reproduction data generating device
according to claim 2 or 3, wherein said special reproduction

data generating means sets a Broken_link bit for the selected transport packet.

5. (Once Amended) The special reproduction data generating device according to any one of claims 2or 3, wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

6. The special reproduction data generating device according to claim 5, wherein the unnecessary or useless data is at least one of data of a frame other than the predetermined kind of frame, and DIT, PCR, PSI, DSM flag, PTS, DTS, and data of an AC coefficient of a macro block that are added to the inputted MPEG transport stream.

7. (Once Amended) The special reproduction data generating device according to any one of claims 2or 3, wherein the correction of the mismatching MPEG format means that in the case where the data necessary for

special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

if the necessary data is stored in the selected transport packet, the additionally inserted transport packet stores data which cannot be stored in the selected transport packet since the selected transport packet stores the necessary data.

8. (Once Amended) The special reproduction data generating device according to any one of claims 2 or 3, wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

9. (Once Amended) The special reproduction data generating device according to claim 7, wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken_link bit that are provide for the special reproduction.

10. (Once Amended) The special reproduction data generating device according to any one of claims 1 to 3, wherein the predetermined frame is an I picture.

11. (Once Amended) The special reproduction data generating device according to any one of claims 1 to 3, wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

12. (Once Amended) A medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 3, the medium being processible by a computer.

13. (Once Amended) An information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 3.

14. (Once Amended) A transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 3.

15. (Once Amended) A recording medium for recording an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 3.

16. (Newly Added) A method of processing an MPEG data packet for special reproduction comprising the steps of:

- (a) receiving multiple MPEG data packets;
- (b) selecting for the special reproduction a data packet of the multiple data packets received in step (a); and
- (c) processing the selected data packet for the special reproduction without converting the multiple MPEG data packets received in step (a) into an elementary stream (ES) and without converting the multiple MPEG data packets received in step (a) into a packetized elementary stream (PES).